

ABSTRACT

Concrete with coarse aggregate defined as enriched limestone waste of grading intermediate between the coarse and fine aggregates is characterized by the specified compressive strength and modulus of rupture up to 5,000 and 750psi, respectively.

Coarse aggregate of this concrete is enriched by-product of manufacture of crushed limestone of regular sizes. As a raw material for enrichment it should be coarser than 9.5mm and finer than 4.75mm. The amount of aggregate finer than 4.75mm as a part of the total weight of aggregate should be not less than 1/3 before enrichment and close to but not exceed 2/3 in aggregate bin. The main part of aggregate finer than 4.75mm should be coarser than 2.36mm.

Concrete with this coarse aggregate is considerably cheaper than concrete of the same strength with crushed granite of regular sizes as a coarse aggregate and can be used for civil and industrial and road construction.